Rabbit PSMA5 Polyclonal Antibody | anti-PSMA5 antibody

Anti-PSMA5 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127450	**Rabbit**	**Human, Monkey, Mouse, Rat**	**ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot**

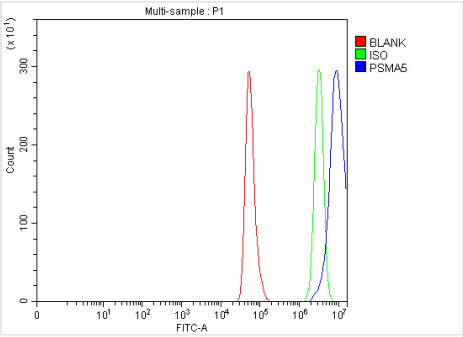
PRODUCT SYNONYMS

PSMA5; Polyclonal Antibody; Anti-PSMA5 Antibody Picoband; anti-PSMA5 antibody

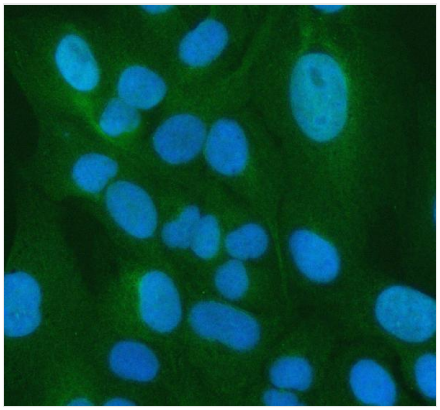
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-PSMA5 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PSMA5 recombinant protein (Position: M1-I241). Human PSMA5 shares 100% and 98.8% amino acid (aa) sequence identity with mouse and rat PSMA5, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

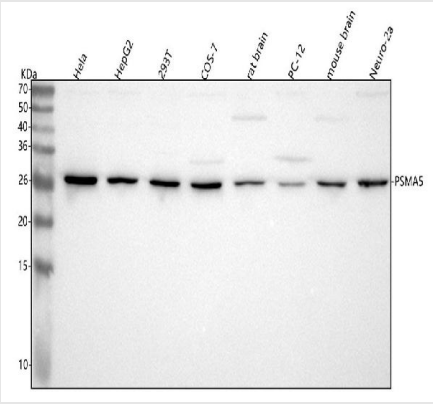
IMAGES



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of Hela cells using anti-PSMA5 antibody (AAA127450).Overlay histogram showing Hela cells stained with AAA127450 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PSMA5 Antibody (AAA127450, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)
Figure 2. IF analysis of PSMA5 using anti-PSMA5 antibody (AAA127450).PSMA5 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PSMA5 Antibody (AAA127450) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)
Figure 1. Western blot analysis of PSMA5 using anti-PSMA5 antibody (AAA127450).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human 293T whole cell lysates,Lane 4: monkey COS-7 whole cell lysates,Lane 5: rat brain tissue lysates,Lane 6: rat PC-12 whole cell lysates,Lane 7: mouse brain tissue lysates,Lane 8: mouse Neuro-2a whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PSMA5 antigen affinity purified polyclonal antibody (#AAA127450) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PSMA5 at approximately 26 kDa. The expected band size for PSMA5 is at 26 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PSMA5 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PSMA5 antibody	Primary Antibodies
References	1. Coux, O., Tanaka, K., Goldberg, A. L. Structure and functions of the 20S and 26S proteasomes. Ann. Rev. Biochem. 65: 801-847, 1996. 2. DeMartino, G. N., Orth, K., McCullough, M. L., Lee, L. W., Munn, T. Z., Moomaw, C. R., Dawson, P. A., Slaughter, C. A. The primary structures of four subunits of the human, high molecular weight proteinase, macropain (proteasome), are distinct but homologous. Biochim. Biophys. Acta 1079: 29-38, 1991. 3. Mayau, V., Baron, B., Buttin, G., Debatisse, M. Twelve genes, including the unassigned proteasome zeta subunit gene, ordered within the human 1p13 region. Mammalian Genome 9: 331-333, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	315138981
NCBI GeneID	5686
NCBI Accession #	NP_001186701.1
NCBI GenBank Nucleotide #	NM_001199772.1
UniProt Accession #	P28066; Q3T1C1; Q6IBF7; B2R8F6; B4E2V4
Molecular Weight	20,035 Da
NCBI Official Full Name	proteasome subunit alpha type-5 isoform 2
NCBI Official Synonym Full Names	proteasome (prosome, macropain) subunit, alpha type, 5
NCBI Official Symbol	PSMA5

NCBI Official Synonym Symbols	PSC5; ZETA
NCBI Protein Information	proteasome subunit alpha type-5; macropain subunit zeta; macropain zeta chain; multicatalytic endopeptidase complex zeta chain; proteasome alpha 5 subunit; proteasome component 5; proteasome subunit zeta; proteasome zeta chain
UniProt Protein Name	Proteasome subunit alpha type-5
UniProt Gene Name	**PSMA5**
UniProt Entry Name	PSA5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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